

Application No. 10/072,909
Response Dated Dec. 9, 2004
Reply to Office Action of Sep. 10, 2004

PATENT

Agent's Docket No. 12733-US

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A graphical user interface framework for a network management and service provisioning workstation of a managed communications network, the framework comprising:

- a. at least one a plurality of generic view panel components for displaying to a user network management and service provisioning information regarding managed network entities and for receiving user input;
- b. at least one a plurality of view panel descriptor files, the at least one each descriptor file including information specifying the configuration of the at least one a corresponding generic view panel component;
- c. a parser for run-time loading the at least one descriptor file;
- c. a plurality of rules for specifying valid interactions with attributes of network entities managed by the network management and service provisioning workstation; and
- d. machine logic coded to for selectively configure[[e]]ing at run-time the at least one generic view panel component in accordance with the specification detailed in the at least one corresponding descriptor file to display at least one view panel instance on a display interface in response to user input.

wherein the use of the at least one generic view panel component and the run-time loading of the at least one descriptor file by the framework provides for a dynamic configuration of the display interface.

Claim 2. (currently amended) A The graphical user interface framework as claimed in claim 1, wherein the at least one each generic view panel component further

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comprises at least one widget facilitating human machine interaction, the run time configuration of the ~~at least one~~ generic view panel component provides for a dynamic configurable human machine interface.

Claim 3. (currently amended) A—The graphical user interface framework as claimed in claim 2, wherein information held in the ~~at least one each~~ descriptor file further comprises a specification of at least one widget attribute.

Claim 4. (currently amended) A—The graphical user interface framework as claimed in claim 2, wherein information held in the ~~at least one each~~ descriptor file further comprises a specification of at least one widget attribute rule.

Claim 5. (currently amended) A—The graphical user interface framework as claimed in claim 4, wherein the ~~at least one each~~ widget attribute rule further comprises an indication of at least one allowable action to be performed on the at least one widget.

Claim 6. (currently amended) A—The graphical user interface framework as claimed in claim 2, wherein the ~~at least one~~ generic view panel component includes an error handling routine for processing input.

Claim 7. (currently amended) A—The graphical user interface framework as claimed in claim 1, further comprising a command interpreter for interpreting at least one received command wherein selectively configuring the ~~at least one~~ generic view panel, the machine logic is further responsive to ~~at least one~~ command.

Claim 8. (currently amended) A—The graphical user interface framework as claimed in claim 1, wherein the machine logic further comprises ~~at least one an~~ access routine implementation used by the framework to interact with a managed object server brokering access to ~~at least one a~~ plurality of manageable entit[[y]]ies object instances corresponding to a managed data network entit[[y]]ies in providing network management and service provisioning solutions.

Claim 9. (currently amended) A—The graphical user interface framework as claimed in claim 8, wherein the framework further comprises messaging means for sending ~~at least one~~ message to the managed object server in interacting therewith.

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Claim 10. (currently amended) A-The graphical user interface framework as claimed in claim 9, wherein the ~~at least one~~ message further encapsulates ~~at least one~~ command.

Claim 11. (currently amended) A-The graphical user interface framework as claimed in claim 8, wherein the machine logic further comprises a validat[[e]]ion means ~~routine implementation used by the framework to~~ for validat[[e]]ing brokered access to the ~~at least one~~ manageable object entity instance.

Claim 12. (currently amended) A-The graphical user interface framework as claimed in claim 8, wherein the machine logic further comprises a commit routine implementation used by the framework ~~to~~ for committing changes to information attributes associated with the ~~at least one~~ managed data network entity[[ies]] instance.

Claim 13. (currently amended) A-The graphical user interface framework as claimed in claim 1, wherein the framework is operable to enable the registration of ~~at least one~~ application module adapted to interwork with the framework, the registration of the ~~at least one~~ application module with the framework provides an independent~~ee~~ in the development of the framework ~~as well as in~~ from the development of the ~~at least one~~ application module.

Claim 14. (currently amended) A-The graphical user interface framework as claimed in claim 13, wherein the framework further comprises a module registration routine enabling the registration of ~~at least one~~ JAVA plug in module.

Claim 15. (currently amended) A-The graphical user interface framework as claimed in claim 1, wherein ~~the each~~ descriptor file[[s]] comprises a human readable file[[s]].

Claim 16. (currently amended) A-The graphical user interface framework as claimed in claim 15, wherein the descriptor file[[s]] comprises an eXtensible Markup Language (XML) file[[s]].

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Claim 17. (currently amended) A—The method of providing a human machine interface for network management and service provisioning, the method comprising steps of:

- a. determining an interaction context requiring an instance of a view panel to be displayed, the instance of the view panel comprising ~~at least one~~ view panel component;
- b. selecting a descriptor file based on the interaction context to configure ~~at least one~~ the view panel component ~~provided by the framework~~;
- c. ~~configuring an instantiated view panel instance, the run-time configuration of the view panel instance provides dynamic configuration of the human machine interface; and~~
- d. displaying the view panel instance;
- e. receiving user input; and
- f. enforcing a rule defining a valid interaction with a managed object entity attribute.

~~wherein the run-time configuration of view panel components provides for a dynamic configuration of the human machine interface.~~

Claim 18. (currently amended) A—The method as claimed in claim 17, wherein the determination of the interaction context requiring the view panel instance, the method comprises a further step of: extracting particulars from a received command using a command interpreter.

Claim 19. (currently amended) A—The method as claimed in claim 18, the method further comprising a step of: making the particulars of the received command available to ~~at least one~~ an application module.

Claim 20. (currently amended) A—The method as claimed in claim 19, wherein the ~~at least one~~ application module comprises an application module registered with a graphical user interface framework for network management and service provisioning, the method further comprising the prior step of: registering the application module with the framework.

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- Claim 21. (currently amended) A--The method as--claimed in claim 17, wherein the method further comprises a step of accepting input.
- Claim 22. (currently amended) A--The method as--claimed in claim 21, wherein the method further comprises a step of validating input.
- Claim 23. (currently amended) A--The method as--claimed in claim 21, wherein the method further comprises a step of committing configuration changes to managed network entity attributes.
- Claim 24. (currently amended) A--The method as--claimed in claim 17 wherein the method further comprises steps of: exchanging at--least one message with a managed object server.
- Claim 25. (currently amended) A--The method as--claimed in claim 24, wherein exchanging the at--least one message with the managed object server, the method further comprises a step of: encapsulating at--least one command in the at--least one message.
- Claim 26. (currently amended) A--The method as--claimed in claim 24, wherein exchanging the at--least one message with the managed object server, the method further comprises a step of: decapsulating at--least one command from a received message.
- Claim 27. (currently amended) A--The method as--claimed in claim 26, wherein the determination of the interaction context further comprises the--a step of: interpreting a--the received command.
- Claim 28. (currently amended) A--The method as--claimed in claim 17, wherein configuring the instantiated view panel, the method further comprises a step of: combining at least two view panel components in instantiating the view panel.
- Claim 29. (new) The graphical user interface framework claimed in claim 1, further comprising a parser for run-time loading the at least one descriptor file in configuring an instance of a corresponding view panel, the run-time loading of the descriptor file by the

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framework provides for a dynamic configuration of network management and service provisioning workstation display interface.

Claim 30. (new) The method claimed in claim 17, further comprising a step of parsing the descriptor file at run-time in configuring the view panel instance.

Claim 31. (new) The graphical user interface framework claimed in claim 1, wherein a generic view panel component is one of: an entity listing view panel component, an entity list filtering view panel component, an entity tree creation view panel component, an entity parameter inspection view panel component, an entity inclusion view panel component, an entity creation view panel component, a validation view panel component, and a commit view panel component.